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## SCIENTIFIC GROUPS CONTRIBUTE TO SOVIET PETROLEUM INDUSTRY

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The petroleum expeditionary group, created in 1950 under the Academy of Sciences Azerbaydzhan SSR, and the Institute of Geology imeni I. M. Gubkin co-operated closely in 1951 with the Azneft' and the Azmorneft' associations in studying the petroleum deposits of the Azerbaydzhan SSR.

Under the directorship of G. N. Gaziyev, active member of the Academy of Sciences Azerbaydzhan SSR, and A. G. Aliyev and M. V. Abramovich, doctors of sciences, basic geological and technical plans were drawn up in 1951 for the employment of secondary methods in the exploitation of a number of large petroleum deposits. This will considerably accelerate the working of the deposits, increase the petroleum output, and decrease production costs. During the current year, the work will be continued on an even wider scale, embracing scores of new petroleum-bearing deposits.

Besides participating in the above activities, scientific associates of the Institute of Geology in 1951 carried out extensive field and laboratory experiments to investigate petroleum deposits in specific areas of the republic, and also solved a number of theoretical questions connected with the formation of petroleum and gas deposits. Leading specialists of the Aznefterazvedka Association assisted in many of these activities.

One of the achievments of the Institute of Geology in 1951 was the preparation for publication of three volumes of a large monograph on the geology of Azerbaydzhan. The two remaining volumes in the series will be completed during the current year. This work, summing up results of many years of investigations, is a valuable contribution to geological science and will be of assistance in determining future research and exploratory work in petroleum and other useful deposits.



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A number of valuable monographs dealing with the geology and petroleum deposits of the Apsheron Peninsula and other regions of the republic are ready for publication and will come off the press this year.

A new process for treating heavy petroleum residues, which will increase considerably the output of light-colored petroleum products, has been worked out by the Institute of Petroleum of the Academy of Sciences Azerbaydzhan SSR under the direction of M. F. Nagiyev, doctor of sciences. This is now being introduced into production by workers of the institute in close cooperation with manufacturers.

Under the direction of Yu. G. Mamedaliyev, active member of the Academy of Sciences Azerbaydzhan SSR, a new process for refining petroleum has been developed and has resulted in a large increase in the supply of petroleum products. The same group has discovered a new process for the catalytic conversion of the heavy fractions, obtained in cracking, into high-grade diesel, tractor, and other types of fuel.

The Institute of Petroleum of the Academy of Sciences Azerbaydzhan SSR, in cooperation with the manufacturers, has worked out an effective method of obtaining a number of chemical products by utilizing the tremendous reserves of natural gas and drilling water /water found in oil wells, not water used for drilling purposes/.

In past years AzNII (Azerbaydzhan Scientific Research Institute) has worked extensively with the Aznefteзavody Association on problems relating to refining petroleum. They have developed a new process for the catalytic refining of petroleum products and have produced new additives to be used in lubricating oils and motor fuels that surpass in their action all additives known at present. All these processes have been widely introduced into production.

As a result of many years of research carried out in the Institute of Chemistry by G. Kh. Efendiyev, Z. Zul'fugarov, I. L. Bagbanly, M. Miskarli, candidates in sciences, a number of valuable suggestions were drawn up. The utilization of the republic's rich bentonite clay reserves in the refining of lubricating oils was established as possible. Industrial experimentation with these clays carried out in 1951 has shown that gumbrin, used at present in refining lubricating oils, can be replaced at a great saving by the use of local clays. Use of them will make it possible to decrease several times the consumption of bleaching clay, considerably lower the consumption of fuel and losses of oil, increase the productivity of the petroleum-refining installation, and simplify the technological process while maintaining or even improving the quality of the refined product. Railroad transport will also experience great relief.

The Institute of Chemistry has proposed a new type of weighting substance to be used in making clay solutions of medium weight and replacing, to a great extent, the hematite presently used.

The Institute of Power Engineering, in cooperation with the Institute of Automatic Machinery and Telemechanics, has worked out a method and designed an automatic control apparatus for controlling operations in compressor wells. Experimentation is also under way to make automatic the processes of oil-well drilling.

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